



Home &gt; IP Services &gt; PatentScope &gt; Patent Search



Search result: 1 of 1

## (WO/2001/005854) CURABLE COMPOSITION

Biblio. Data	Description	Claims	National Phase	Notices	Documents
--------------	-------------	--------	----------------	---------	-----------

## Latest bibliographic data on file with the International Bureau

**Publication Number:** ~~WO/2001/005854~~ **International Application No.:** PCT/JP2000/004819  
**Publication Date:** 25.01.2001 **International Filing Date:** 18.07.2000

**Int. Class.:** C08F 2/44 (2006.01), C08F 222/10 (2006.01), C08F 290/00 (2006.01), C08K 5/1545 (2006.01), C09D 4/00 (2006.01), C09K 9/02 (2006.01), G02B 1/04 (2006.01), G02B 1/10 (2006.01), G02B 5/23 (2006.01), G02C 7/10 (2006.01)

**Applicants:** TOKUYAMA CORPORATION [JP/JP]; 1-1 Mikage-cho Tokuyama-shi Yamaguchi 745-0053 (JP) (*All Except US*).  
 MOMODA, Junji [JP/JP]; Tokuyama Corporation 1-1 Mikage-cho Tokuyama-shi Yamaguchi 745-0053 (JP) (*US Only*).  
 KAWASAKI, Takayoshi [JP/JP]; Tokuyama Corporation 1-1 Mikage-cho Tokuyama-shi, Yamaguchi 745-0053 (JP) (*US Only*).  
 OHTANI, Toshiaki [JP/JP]; Tokuyama Corporation 1-1 Mikage-cho Tokuyama-shi Yamaguchi 745-005 (JP) (*US Only*).

**Inventors:** MOMODA, Junji [JP/JP]; Tokuyama Corporation 1-1 Mikage-cho Tokuyama-shi Yamaguchi 745-0053 (JP).  
 KAWASAKI, Takayoshi [JP/JP]; Tokuyama Corporation 1-1 Mikage-cho Tokuyama-shi, Yamaguchi 745-0053 (JP).  
 OHTANI, Toshiaki [JP/JP]; Tokuyama Corporation 1-1 Mikage-cho Tokuyama-shi Yamaguchi 745-005 (JP).

**Agent:** SUZUKI, Ikuo; Atagoyama Bengoshi Bldg. 6-7, Atago 1-chome Minato-ku, Tokyo 105-0002 (JP).

**Priority Data:** 11/205165 19.07.1999 JP  
 11/295835 18.10.1999 JP

**Title:** CURABLE COMPOSITION

**Abstract:** A curable composition which comes to have a color having a high color density, is decolored at a high rate has satisfactory photochromic properties, and gives a photochromic cured object excellent in base material properties including hardness, heat resistance, and impact resistance. The composition comprises a polymerizable monomer having a Rockwell hardness as measured on scale L of 40 or lower, a bifunctional polymerizable monomer having a Rockwell hardness as measured on scale L of 60 or higher, a polyfunctional polymerizable monomer having a Rockwell hardness as measured on scale L of 60 or higher, and a photochromic compound.

**Designated States:** AU, JP, US.  
 European Patent Office (EPO) (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

**Publication Language:** Japanese (JA)  
**Filing Language:** Japanese (JA)

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2001 年 1 月 25 日 (25.01.2001)

PCT

(10) 国際公開番号  
WO 01/05854 A1

(51) 国際特許分類<sup>7</sup>: C08F 220/10, C08L 33/00, 63/00,  
C08K 5/1545, C09D 133/04, G02B 5/23, G02C 7/10

特願平 11/295835

1999 年 10 月 18 日 (18.10.1999) JP

(21) 国際出願番号: PCT/JP00/04819

(71) 出願人 (米国を除く全ての指定国について): 株式会社  
トクヤマ (TOKUYAMA CORPORATION) [JP/JP]; 〒  
745-0053 山口県徳山市御影町1番1号 Yamaguchi (JP).

(22) 国際出願日: 2000 年 7 月 18 日 (18.07.2000)

(25) 国際出願の言語: 日本語

(72) 発明者; および

(26) 国際公開の言語: 日本語

(75) 発明者/出願人 (米国についてのみ): 百田潤二  
(MOMODA, Junji) [JP/JP]. 川崎剛美 (KAWASAKI,  
Takayoshi) [JP/JP]. 大谷俊明 (OHTANI, Toshiaki)  
[JP/JP]; 〒745-0053 山口県徳山市御影町1番1号 株式  
会社 トクヤマ内 Yamaguchi (JP).

(30) 優先権データ:  
特願平11/205165 1999 年 7 月 19 日 (19.07.1999) JP

[続葉有]

(54) Title: CURABLE COMPOSITION

(54) 発明の名称: 硬化性組成物

(57) Abstract: A curable composition which comes to have a color having a high color density, is decolored at a high rate, has satisfactory photochromic properties, and gives a photochromic cured object excellent in base material properties including hardness, heat resistance, and impact resistance. The composition comprises a polymerizable monomer having a Rockwell hardness as measured on scale L of 40 or lower, a bifunctional polymerizable monomer having a Rockwell hardness as measured on scale L of 60 or higher, a polyfunctional polymerizable monomer having a Rockwell hardness as measured on scale L of 60 or higher, and a photochromic compound.

(57) 要約:

本発明は、発色濃度が高く、退色速度が速く、良好な  
フォトクロミック特性を示し、さらにその硬化体の硬度、  
耐熱性、耐衝撃性といった基材特性が優れるフォトクロ  
ミック硬化体を提供する。

本発明によれば、Lスケールでロックウエル硬度が4  
0以下の重合性単量体、Lスケールでロックウエル硬度  
が60以上の2官能性重合性単量体、Lスケールでロッ  
クウエル硬度が60以上の多官能性重合性単量体、及び  
フォトクロミック化合物を含有する硬化性組成物が提  
供される。



WO 01/05854 A1